

For Research Use Only

# Recombinant Human BTN3A1 protein (rFc Tag)



Catalog Number: Eg1916

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE

**Endotoxin Level:**  
<0.1 EU/μg protein, LAL method

**Source:**  
HEK293-derived Human BTN3A1 protein Gln30-Gly254 (Accession# O00481-1) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**  
11119

**Accession:**  
O00481-1

**Predicted Molecular Mass:**  
50.4 kDa

**SDS-PAGE:**  
48-62 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

### Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

### Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

BTN3A1, also named as Butyrophilin subfamily 3 member A1, BTF5 or CD277, is a 513 amino acid protein, which contains one B30.2/SPRY domain and two Ig-like V-type (immunoglobulin-like) domains. BTN3A1 is involved in immunomodulation and binds to various receptors such as the γδ T cell receptor (γδTCR) and small molecules, fulfilling a wide range of functions including immunomodulation. BTN3A1 is also involved in the process of antigen presentation, influencing the recognition and response of immune cells to infections and tumors.

## References

1. Herrmann T, et al. (2022). Front Immunol. 13:876493.
2. Payne KK, et al. (2020). Science. 369(6506):942-949.
3. Hu Y, et al. (2023). Signal Transduct Target Ther. 8(1):434.

## Synonyms

BT3.1, BTF5, CD277

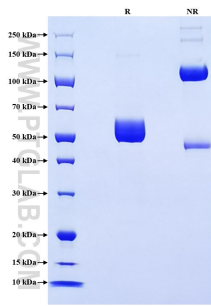
For technical support and original validation data for this product please contact

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## Selected Validation Data



Purity of Recombinant Human BTN3A1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.